



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AEG-P43-8TW-A-POE 4000K AMBIENT ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 18091.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 25-AUG-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 2x4' RECESSED LED TROFFER
 [MORE] FROSTED ACRYLIC DIFFUSER
 [LUMCAT] AMD4AEG-P43-8TW-A-PoE 4000k AMBIENT ONLY
 [_SEARCH_SOURCETYPE]LED
 [_SEARCH_APPLICATION]INDOOR,DIRECT
 [_SEARCH_MOUNTING]RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4342
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	38.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2088	2138	2128
55	1771	1906	1876
65	1479	1627	1296
75	1126	1025	733
85	859	643	568

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1834.277	1834.277	1834.277	1834.277	1834.277
5	1826.503	1826.503	1825.162	1824.358	1824.358
10	1793.259	1791.115	1787.898	1783.876	1782.804
15	1719.534	1715.513	1707.738	1700.500	1698.623
20	1681.466	1677.712	1666.453	1653.584	1649.563
25	1553.586	1551.173	1539.377	1526.777	1517.126
30	1434.286	1430.264	1417.932	1401.579	1391.123
35	1317.398	1316.058	1307.747	1291.393	1286.032
40	1177.187	1179.868	1180.940	1169.412	1165.391
45	1031.077	1044.750	1055.742	1055.742	1050.648
50	861.912	877.729	901.053	911.509	905.075
55	709.368	729.475	763.523	769.957	751.190
60	561.114	583.366	621.971	580.685	555.216
65	436.452	462.725	480.151	419.026	382.298
70	317.688	347.178	329.484	261.657	234.311
75	203.481	222.515	185.251	144.233	132.437
80	120.641	123.322	96.513	79.623	76.942
85	52.278	46.380	39.141	35.120	34.584
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	658.45	N.A.	15.20
0-30	1368.29	N.A.	31.50
0-40	2182.51	N.A.	50.30
0-60	3652.38	N.A.	84.10
0-80	4292.69	N.A.	98.90
0-90	4342.12	N.A.	100.00
10-90	4169.12	N.A.	96.00
20-40	1524.06	N.A.	35.10
20-50	2328.53	N.A.	53.60
40-70	1908.98	N.A.	44.00
60-80	640.31	N.A.	14.70
70-80	201.20	N.A.	4.60
80-90	49.43	N.A.	1.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4342.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	173.00
10-20	485.44
20-30	709.84
30-40	814.22
40-50	804.47
50-60	665.40
60-70	439.11
70-80	201.20
80-90	49.43
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	165	165	165	165	161	161	161	161	154	154	154	147	147	147	141	141	141	138
1	152	146	140	135	148	142	138	133	137	133	129	131	128	125	126	124	121	118
2	139	128	119	112	135	126	118	111	121	114	108	116	111	106	112	108	103	101
3	127	114	103	94	124	111	102	94	107	99	92	104	96	90	100	94	89	86
4	117	101	90	81	114	99	89	80	96	87	79	93	85	78	90	83	77	74
5	108	91	79	70	105	89	78	70	87	77	69	84	75	68	81	74	68	65
6	100	82	70	62	97	81	70	62	78	68	61	76	67	60	74	66	60	57
7	93	75	63	55	90	74	63	55	72	62	54	70	61	54	68	60	54	51
8	87	68	57	49	84	67	57	49	66	56	49	64	55	49	62	54	48	46
9	81	63	52	45	79	62	52	44	61	51	44	59	50	44	58	50	44	41
10	76	58	48	41	74	58	47	40	56	47	40	55	46	40	54	46	40	38

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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	12.7	14.3	13.1	14.6	14.9	12.9	14.5	13.3	14.8	15.1
	3H	14.3	15.7	14.7	16.0	16.4	13.9	15.3	14.3	15.6	16.0
	4H	14.8	16.1	15.2	16.4	16.8	14.1	15.4	14.5	15.8	16.2
	6H	15.1	16.3	15.5	16.7	17.1	14.3	15.5	14.7	15.9	16.2
	8H	15.2	16.4	15.6	16.8	17.2	14.3	15.5	14.7	15.9	16.3
	12H	15.3	16.4	15.7	16.8	17.2	14.3	15.4	14.8	15.8	16.3

UGR Viewed Endwise

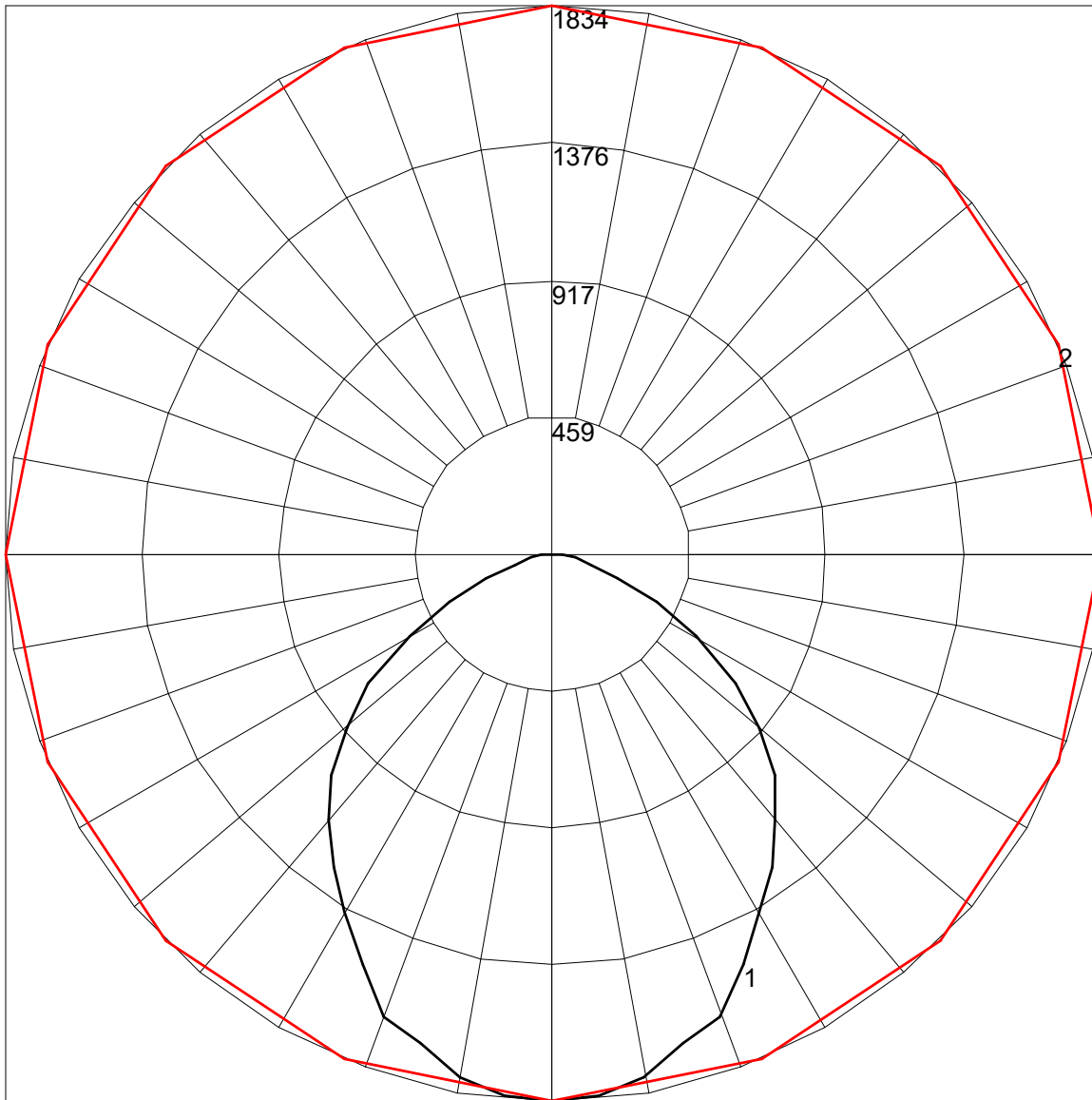
4H	2H	13.4	14.7	13.8	15.0	15.4	13.5	14.8	13.9	15.2	15.6
	3H	15.1	16.2	15.5	16.6	17.0	14.7	15.8	15.1	16.2	16.6
	4H	15.7	16.7	16.2	17.1	17.6	15.0	15.9	15.4	16.4	16.8
	6H	16.2	17.0	16.6	17.5	17.9	15.2	16.0	15.6	16.5	16.9
	8H	16.3	17.1	16.8	17.5	18.0	15.2	16.0	15.7	16.5	16.9
	12H	16.4	17.1	16.9	17.6	18.1	15.3	16.0	15.7	16.5	16.9

8H	4H	15.9	16.7	16.3	17.1	17.6	15.2	16.0	15.6	16.4	16.9
	6H	16.4	17.1	16.9	17.6	18.0	15.5	16.1	15.9	16.6	17.1
	8H	16.6	17.2	17.1	17.7	18.2	15.5	16.1	16.1	16.6	17.1
	12H	16.8	17.3	17.3	17.8	18.3	15.7	16.2	16.2	16.7	17.2

12H	4H	15.8	16.6	16.3	17.0	17.5	15.2	15.9	15.7	16.4	16.9
	6H	16.4	17.0	16.9	17.5	18.0	15.5	16.1	16.0	16.5	17.1
	8H	16.7	17.2	17.2	17.7	18.2	15.6	16.1	16.1	16.6	17.2

Maximum UGR = 18.3

POLAR GRAPH



Maximum Candela = 1834.277 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)